PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT					
To: KONINKLIJKE PHILIPS ELECTRONICS N.V. Attn. Eleveld, Koop J. Prof. Holstlaan 6 NL-5656 AA Eindhoven NETHERLANDS	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION					
NETHERLANDS 0 1 JUNI 2005	(PCT Rule 44.1)					
	Date of mailing (day/month/year) 01/06/2005					
Applicant's or agent's file reference						
PHNL050182	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/IB2005/050662	International filing date (day/month/year) 23/02/2005					
Applicant						
KONINKLIJKE PHILIPS ELECTRONICS N.V.						
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report, however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. The applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. A Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the international Bureau						
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 Hyr Bilswijk Fiel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Paul Faux					



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basin instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of William.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS LINDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 secure where, or go, the applicant what the faltest to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Proliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmitted of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required, in all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be crouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Mhere original] there were 14 claims and the amendments consist in cancelling some claims and in adding new claims 1:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 1 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Pulle 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	7	see Form PCT/ISA/220
PHNL050182	ACTION	as well	l as, where applicable, item 5 below.
nternational application No.	International filing date (day/mon	h/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2005/050662	23/02/2005		23/02/2004
Applicant			
KONINKLIJKE PHILIPS ELECT	RONICS N.V.		
This International Search Report has be according to Article 18. A copy is being to	en prepared by this International Sea ransmitted to the International Burea	rching Aut	hority and is transmitted to the applicant
This International Search Report consist	s of a total ofs	eets.	
X It is also accompanied b	y a copy of each prior art document	cited in this	report.
	e international search was carried ou niess otherwise indicated under this		sis of the International application in the
X The internationa this Authority (R		of a transl	lation of the international application furnished to
b. With regard to any nucle	eotide and/or amino acid sequenc	disclosed	in the international application, see Box No. I.
2. Certain claims were fo	und unsearchable (See Box II).		
3. Unity of invention is la	cking (see Box III).		
4. With regard to the title,			
	submitted by the applicant.		
	ished by this Authority to read as foll		
NOZZLE ASSEMBLY FOR A	SAW FOR SEMICONDUCTO	KS	
•			
5. With regard to the abstract,			
_	submitted by the applicant.		
the text has been estable may, within one month f	ished, according to Rule 38.2(b), by rom the date of mailing of this interna	this Author ational sear	ity as it appears in Box No. IV. The applicant report, submit comments to this Authority.
6. With regard to the drawings,			•
a. the figure of the drawings to be	published with the abstract is Figure	No10	
X as suggested by	the applicant.		
as selected by t	nis Authority, because the applicant	ailed to sug	ggest a figure.
	his Authority, because this figure bet	ter characte	erizes the invention.
 b. none of the figures is to 	be published with the abstract.		

International application No.

INTERNATIONAL SEARCH REPORT

PCT/IB2005/050662

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A nozzle assembly (314) for directing flow of fluid across one or more semiconductor device cutting blades (318), comprising: one or more nozzles configured to protrude toward a cutting blade for cutting a semiconductor device; and a channel formed in each of the nozzles, the channel being configured to at least partially surround the cutting blade, so as to simultaneously direct flow of a fluid onto the cutting edge of the cutting blade and onto the sides of the cutting blade.

Form PCT/ISA/210 (continuation of first sheet (3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2005/050662

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B28D5/00 B28D5/02

B23D59/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $\begin{array}{ccc} IPC & 7 & B28D & B23D \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	EP 0 955 119 A (SKC DI TONDINI CLAUDIO) 10 November 1999 (1999-11-10)	1-3,5
•	paragraphs '0013!, '0014!; figures 2,4,5	8,9
X	US 3 623 520 A (PETER J. NEILD) 30 November 1971 (1971-11-30)	1,2,4-7
Y	column 2, line 5 - column 3, line 35; figures 1,2,4	8,9
(US 4 619 081 A (LIPANSKI ET AL) 28 October 1986 (1986-10-28) column 5, line 6 - line 20; figure 8	1,5
Y	US 2002/178883 A1 (YAMAMOTO NAOKO) 5 December 2002 (2002-12-05) paragraphs '0013! - '0018!; figures 2,3	8,9

Special categories of clied documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international titing date. 'I document which may throw doubts on priority claim(s) or comment which may throw doubts on priority claim(s) or claim of the client of the categories of the comment which may throw doubts on priority claim(s) or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the International filing date but later than the protrity date claimed	To later occurrent published after the international filing date opportunities of the process of
Date of the actual completion of the international search	Date of mailing of the international search report
28 April 2005	01/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL. – 2200 HV Filipwijk Tel. (+31-70) 340-2900, Tx. 31 651 epo nl, Fax. (+31-70) 340-3016	Authorized officer Frisch, U

Patent family members are listed in annex.

Further documents are listed in the continuation of box C.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/IB2005/050662

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0955119	A	10-11-1999	IT AT DE EP	B0980291 285310 69922734 0955119	T D1	08-11-1999 15-01-2005 27-01-2005 10-11-1999
US 3623520	A	30-11-1971	NONE			
US 4619081	A	28-10-1986	CN EP	86101497 0193070		12-11-1986 03-09-1986
US 2002178883	A1	05-12-2002	JP	2002359212	Α	13-12-2002

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING ALITHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/B2005/050662 23.02.2005 23.02.2004 International Patent Classification (IPC) or both national classification and IPC B28D5/00, B28D5/02, B23D59/02 Applicant KONINKI LIKE PHILIPS ELECTRONICS N.V. This opinion contains indications relating to the following items: ⊠ Boy No. I Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220 Name and mailing address of the ISA: Authorized Officer

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-7237

Frisch, U



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050662

	Box	No	o. I Basis of the opinion	
1.			gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.	
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ider Rules 12.3 and 23.1(b)).	
2.			gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:	
a. type of material:				
	[]	a sequence listing	
	[table(s) related to the sequence listing	
	b. fo	orm	at of material:	
	[3	in written format	
	[)	in computer readable form	
	c. ti	me	of filing/furnishing:	
	[contained in the international application as filed.	
	[_	filed together with the international application in computer readable form.	
	(_	furnished subsequently to this Authority for the purposes of search.	
3.		ha	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.	

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050662

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial a	pplicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: (Claims Claims	8,9 1-7
Inventive step (IS)	Yes: 0 No: 0	Claims Claims	1-9
Industrial applicability (IA)	Yes: 0 No: 0	Claims Claims	1-9

2. Citations and explanations

see separate sheet

Reference is made to the following documents:

D1 : EP 0 955 119 A (SKC DI TONDINI CLAUDIO) 10 November 1999 (1999-11-10)

D2: US 3 623 520 A (PETER J. NEILD) 30 November 1971 (1971-11-30)

D3: US 4 619 081 A (LIPANSKI ET AL) 28 October 1986 (1986-10-28)

D4: US 2002/178883 A1 (YAMAMOTO NAOKO) 5 December 2002 (2002-12-05)

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document):

A nozzle assembly <u>suitable for</u> directing flow of a fluid across one or more semiconductor device cutting blades, comprising:

- one nozzle (12) configured to protrude toward a cutting blade (D); and
- a channel formed in each of the nozzles, the channel being configured to at least partially surround the cutting blade, so as to simultaneously direct flow of a fluid onto the cutting edge of the cutting blade and onto the sides of the cutting blade (Fig.5).

The nozzle assembly is obviously suitable for a semiconductor cutting device.

The features of claim 1 are also known from D2 and D3.

3 INDEPENDENT CLAIM 8

The present application does not meet the criteria of Article 33(1) PCT, because the subject

matter of claim 8 does not involve an inventive step in the sense of Article 33(3)PCT.

3.1. Document D4, which is considered to represent the most relevant state of the art to the subject matter of claim 8, discloses a sawing apparatus according for a semiconductor device.

3.2

The subject-matter of independent claim 8 differs from the disclosure of D4 in that: A nozzle assembly according to claim 1 is used.

- 3.3 The problem to be solved by the present invention may therefore be regarded as providing a simple nozzle for directing fluid across the cutting blade.
- 3.4 In view of D1, D2 and D3 the solution proposed in claim 8 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: The above mentioned features have already been employed for the same purpose in a similar apparatus, see documents D1, D2 or D3. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a method according to document D4, thereby arriving at a use according to claim 8.

4 DEPENDENT CLAIMS 2-7, 9

Dependent claims 2-7, 9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

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